

CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Contract ID	<u>080919-701</u>	Job No.	<u>J710599</u>	Date	<u>3/11/09</u>
County	<u>Lawrence</u>	Route	<u>44</u>	Original Bid Cost	<u>\$6,344,873.92</u>
Contractor	<u>APAC-Missouri, Inc.</u>	By	<u>David Wilkins</u>		
Designed By	<u>APAC-Missouri, Inc.</u>	Phone	<u>417-868-6700</u>		

VECP 09-15

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

The original design called for removing the SOR and replacing it with 6" of asphalt and adding A3 shoulders. While reviewing the cross sections, it was noticed that the alignment of the existing and new SOR are the same from Sta. 749+20 to Sta. 752+50. From Sta. 752+50 to Sta. 757+00 the new SOR transitions to a different alignment, however roughly keeps the same vertical curve. We are therefore proposing to leave the old SOR in place and overlay it with 1.75" BP-1 and eliminate the A3 shoulders from Sta. 749+20 to Sta. 757+00. The new SOR from Sta. 757+00 to Sta. 772+63 would be constructed as per plan. We would pave all of the bit base on the new SOR up to existing elevation of the old SOR. We would then surface the old and new SOR at the same time. This would allow for a much shorter construction time and less disruption to the traveling public. The VPI would change slightly at 755+74.35 to 1268.20 to allow for the new SOR to tie into the old SOR. I have included petromat in the attached summary of pricing as an option for MoDOT.

Note: No engineering fees were included in the above proposal. We are requesting that if any engineering is required, MoDOT perform the engineering at no cost to APAC-Missouri, Inc or this proposal. We are submitting this as a VE 50/50 split.

The advantage overlaying the SOR in lieu of replacing it is that it will serve the same purpose at a lower cost to the taxpayers. It will also allow for faster construction time and thus minimizing disruption to the traveling public.

APAC-Missouri, Inc. does not foresee any disadvantages to the above proposal.

The estimated net savings is \$22,015.85. See attached quantity summary.

2. Estimate of reduction in construction costs.
3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

APAC-Missouri, Inc. foresees no additional costs for MODOT.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

Detailed breakdown is attached
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

March 23, 2009

(date)

No change to completion date or schedule.

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

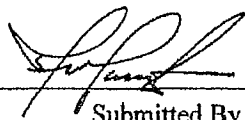
N/A

(date and/or dates)

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments: *I recommend acceptance of this VE proposal.*



Submitted By Resident Engineer

3/13/09

Date

Comments:

I concur.

☒ Approval
Recommended
☐ Rejection
Recommended

Becky Balty
District Engineer

3-17-09
Date

Comments:

APPROVED AS SO/SO V.E.

☒ Approval
☐ Rejection

David D. Coover

State Construction and Materials Engineer

4-6-09
Date

Distribution: Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

FHWA FULL OVERSIGHT PROJECT:

APPROVAL
Recommended



J710599, I recommended the
proposed change.

[Signature]
FEDERAL HIGHWAY ADMINISTRATION

April 6, 2009
DATE

RT. 44 LAWRENCE VE SUMMARY SHEET

Original Contract

Item Number	Item Description	Bid Quantity	Units	Unit Price	Total
200	TYPE 1 AGGREGATE FOR BASE (4" THICK)	8437	SY	\$5.30	\$44,716.10
240	TYPE A3 SHOULDER	4754	SY	\$25.50	\$121,227.00
1140	6 INCHES, BITUMINOUS PAVEMENT	7122.7	SY	\$25.45	\$181,272.72
			Total		\$347,215.82

VE Proposal

Item Number	Item Description	Bid Quantity	Units	Unit Price	Total
200	TYPE 1 AGGREGATE FOR BASE (4" THICK)	6742	SY	\$5.30	\$35,732.60
240	TYPE A3 SHOULDER	4507.3	SY	\$25.50	\$114,936.15
250	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	160.8	TONS	\$142.00	\$22,833.60
1140	6 INCHES, BITUMINOUS PAVEMENT	5735.5	SY	\$25.45	\$145,968.48
XX1	PETROMAT	1387.2	SY	\$4.13	\$5,729.14
			Total		\$325,199.96

\$325,199.96
+ 6,290.85

\$331,490.81

\$22,015.85

Total Savings

Savings = \$15,725.01

A3 Shoulders:
original \$ 121,227.00
VE proposal \$ 114,936.15
diff. \$ 6,290.85

Wance Brothers

Bringing Integrity to the Surface.

(816) 223-4326 (800) 821-6443 FAX: (816) 223-6472

APAC-Mo
Dawn Wilkie
Phone: 417-868-5760
Fax: 417-868-5765

24-Feb-09

Est Date:

info@wancebrothers.com

QUOTATION

Project Name	Item Item Number	Description	Item Quantity S.Y.	Quote Product	Per Unit	Total	Remarks
MODOT Route 44	NA	Roadway	1,388	Paving Fabric	\$ 3.93	\$ 5,329.08	TE/PW Based on one Mobilization and 1 Day application

Quotation is valid for 30 days from date of issue. To be effective.

*THIS QUOTATION DOES NOT INCLUDE ANY PRIOR CLEANING,

CRACK SEALING, TRAFFIC CONTROL, PNEUMATIC ROLLING OR SANDING.

**EXTRA DAYS FOR INSTALLATION WILL BE BILLED AT \$1800.00 PER DAY.

***Unit Price Includes Tack For Paving Fabric.

Price Good For 30 Days

Mark
Merl R. Aber

I accept the terms and pricing for the above-mentioned project.

Date: _____ Accepted By: _____

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

____ Overlay a portion of the south outter road in lieu of reconstruct. _____

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

____ Scan entire document.